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Prepared For: Bookmark Reading

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Introduction

This is Phase 1 of a **full declarative Salesforce build** I've been developing in response to Bookmark's mission and the Salesforce Administrator role. I've taken the initiative to design what I believe could be the backbone of your CRM system—fully aligned to the needs of programme staff, volunteers, and leadership—without requiring any Apex, DLRS, or unmanaged code.

The aim here isn't just to show technical skill, but to demonstrate real understanding of how Bookmark operates and what kind of system would actually work on the ground. I've built this directly in Salesforce, **focusing on practical flows, clean architecture, and future-proof rollups that prioritise maintainability and integrity.**

Phase 1 covers student tracking and reading session infrastructure—what I see as the core layer everything else builds on.

Phase 1 Overview

This report summarizes the successful completion of Phase 1 for the Literacy Tracker Salesforce application. This phase focused on building the core schema, essential automation, user interface elements, and the initial security model.

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Demo Available at: https://rubenpires-dev-ed.develop.lightning.force.com/

Login Credentials:

Username: jvolu@ruben.pires **Password:** VOLUNTEER123

Available Demo Activities

Create, edit, and delete Students, Books, and Locations
 Run Quick Session Entry flow directly from the Student record page

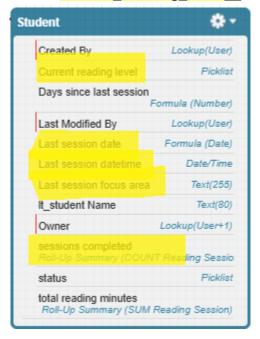
1. Core Data Model (Schema)

Phase 1 established the fundamental data structure. The core custom objects created are:

1) Student_c 2) Reading_Session_c 3) Book_c 4) Program_Location_c

Student__c: Represents the child participant. Tracks key calculated metrics like:

- Last Session DateTime c,
- Latest_Session_Focus_Area__c,
- Sessions_Completed_c,
- Total_Reading_Minutes__c,
- and the student's Current_Reading_Level__



Reading_Session__c: Represents an individual reading session.

This object has a **Master-Detail relationship to Student_c**. Ensuring sessions are tightly linked to participants and enabling **roll-up summaries on the Student record**.



Book__c: A catalogue of reading materials used in sessions.

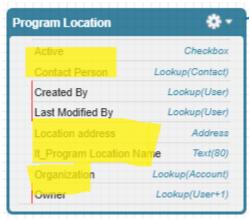
Reading Session c has a Lookup relationship to Book c.



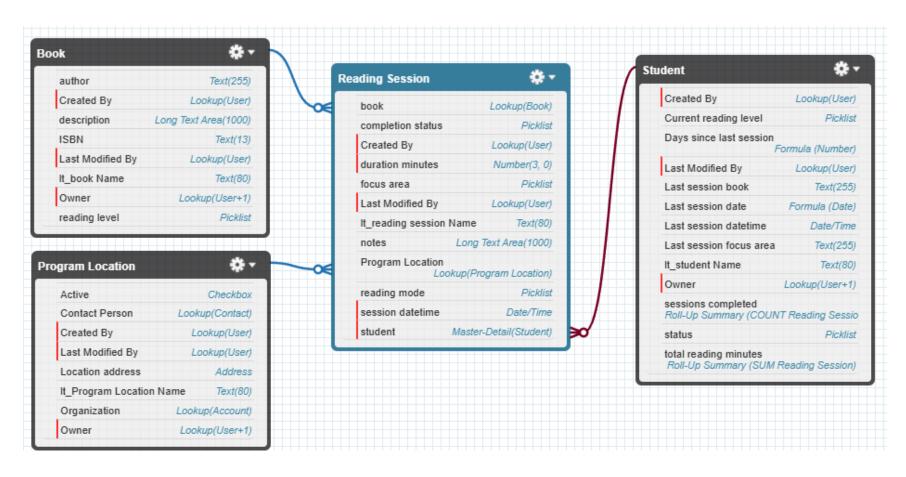
Program_Location__c: Represents the physical venues where sessions occur.

Reading_Session__c has a Lookup relationship to Program_Location__c.

This object also includes lookups to standard Account (for the parent Organization) and Contact (for the specific Contact Person) objects.

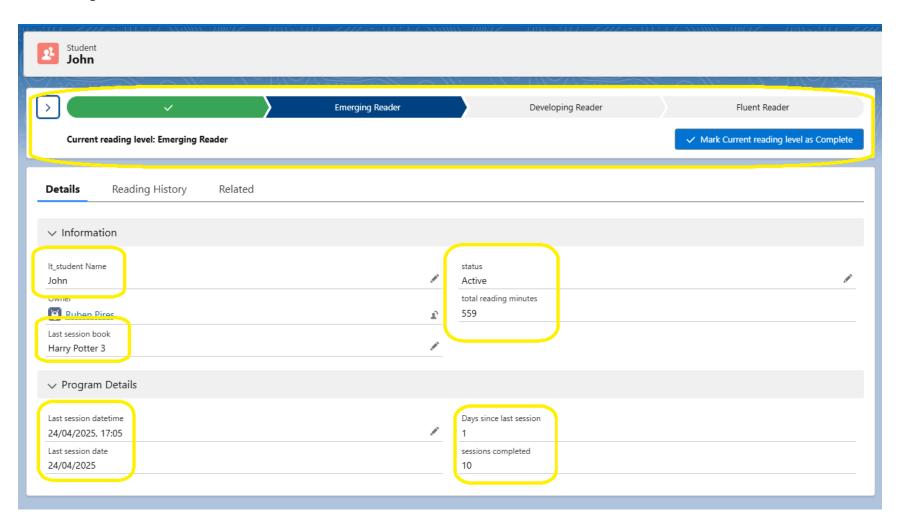


Key relationships and automated fields provide immediate value by **summarizing student engagement and recency directly on the Student record**.



2. Key User Experience: Student Record & Session Entry

The primary user interface for interacting with student data and initiating session logging in Phase 1 is the **Student_c Lightning Record Page**:



2.1. Student Path Component:

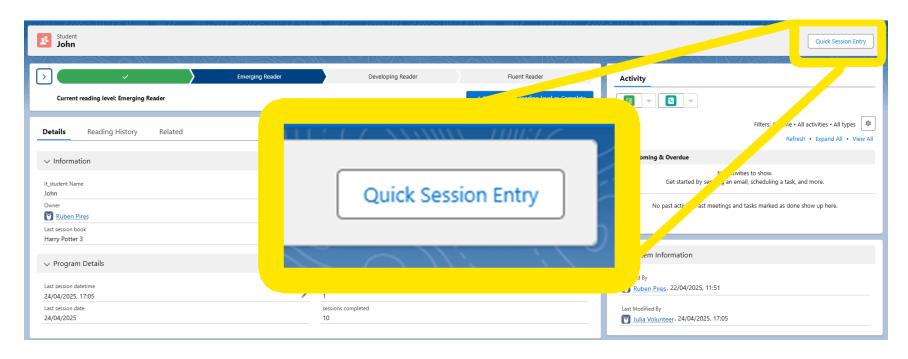
A Path component is configured based on the **Student_c**. It provides staff with an at-a-glance view of the student's progress stage.

Key fields, such as Current_Reading_Level__c, Latest_Session_Focus_Area__c and Last_Session_Date__c, are displayed directly within the Path stages, along with configurable guidance text for staff.



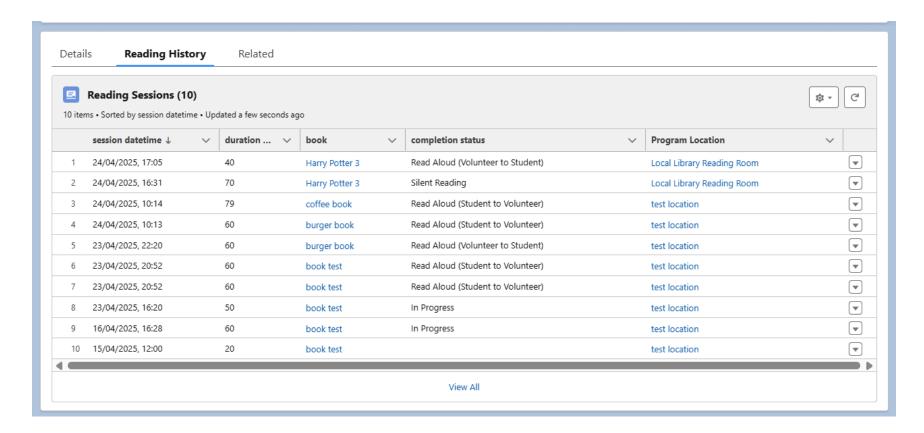
2.2 Log Reading Session Action:

A prominent action button on the Student page launches the Quick Session Entry screen flow.



2.3 Session History List

A tab with previous Reading Sessions is also available for staff allowing for quick reference, displaying key fields like session date, duration, book from session, session status and location. The intent is to provide additional context and continuity for their work with students.



Combined Efficiency:

These features allow staff (like Literacy Specialists) viewing a Student record to quickly understand their status via the Path and immediately launch the flow to log a new session, streamlining data entry and ensuring student records stay current.

3. Core Automation (Flows)

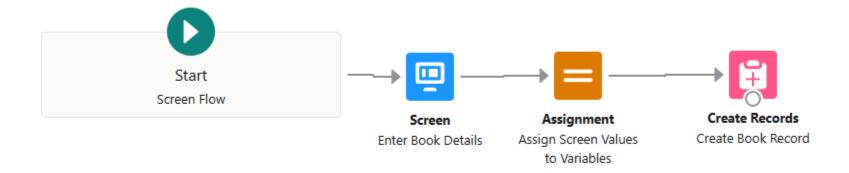
Three essential flows were implemented in Phase 1 to automate key processes:

3.1 Flow 1: Book Creator (Subflow)

Purpose: Allows users to create a new Book__c record directly from within the session logging process **if the required book doesn't exist.**

Mechanism: This is a Screen Flow configured to run in **System Context Without Sharing.** This allows users (like Volunteers/Specialists) who may not have direct Create permissions on the Book object to still add necessary books. It collects book details (Title, Author, Level, etc.) via a screen and creates the **Book__c** record.

Output: It returns the Record ID of the newly created Book__c back to the calling flow.

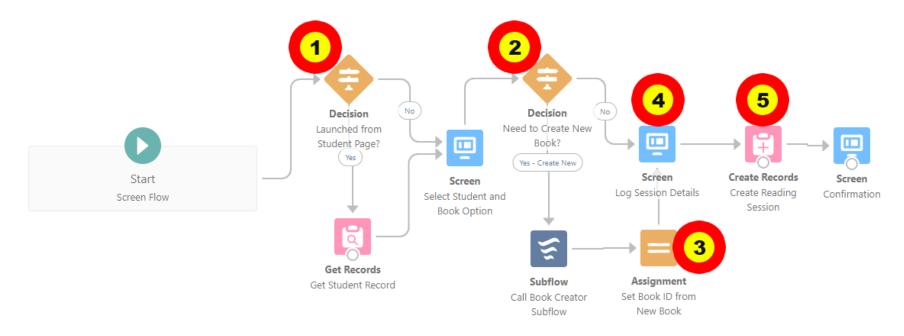


3.2 Flow 2: Quick Session Entry (Screen Flow)

Purpose: Provides the primary user interface for logging new **Reading_Session__c** records.

Mechanism: This Screen Flow runs in **User Context**, this **limits access and visibility** of student records to ensuring they **only see** the students they're responsible for.

- 1. It checks if launched from a Student record page; if yes, it uses the current recorded to auto-fill the Student lookup.
- 2. It asks the user if they need to add a new book. If 'Yes' is chosen, it calls the Book Creator subflow.
- 3. It uses the **Book ID** (either selected by the user from an existing book or returned by the Book Creator subflow) to **auto-fill the Book lookup** on the detail entry screen.
- 4. It then collects remaining session details (DateTime, Duration, Status, Mode, Focus Area, Location, Notes).
- 5. It creates Reading_Session_c record, linking it to the correct Student, Book, and Location



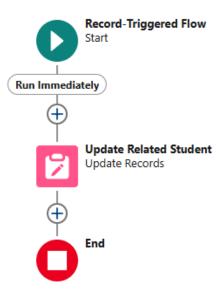
3.3 Flow 3: Student Last-Session Updater (Record-Triggered Flow)

Purpose: Keeps key fields on the Student_c record updated automatically based on the most recent session activity.

Mechanism: This flow runs **after-save** whenever a **Reading_Session__c** record is created or updated.

Trigger Conditions: It triggers *specifically* if the record is new OR if the Session_DateTime__c or Focus_Area__c fields are changed, AND the Session_DateTime_c field is not blank.

Action: It efficiently updates the related parent Student__c record, setting the Last_Session_DateTime__c and Latest_Session_Focus_Area__c fields with the values directly from the triggering Session record. This ensures the Student Path and reporting fields are always current.



4. Security & Access Model

A role-based security model using Permission Set Groups was established:

Role Hierarchy: A basic role (Literacy Program Staff) was created.

Profile: A custom profile (Literacy Program User) cloned from 'Standard User' provides minimal baseline access.

Permission Sets:

- 1. Literacy Program Core Access:
 - Grants Create, Edit, Update, Delete (CRUD) on custom objects (Student, Session, Book, Location)
 - Read-Only on standard Account/Contact (for lookups)
 - Run Flows permission, and necessary App/Tab visibility
- 2. Account & Contact Management Literacy Program:
 - Grants Create/Edit permissions on standard Account/Contact objects.

Permission Set Groups:

- 1. Literacy Specialist: Contains only Literacy Program Core Access. Assigned to standard users.
- Literacy Program Manager: Contains both Literacy Program Core Access AND Account & Contact
 Management Literacy Program. Assigned to users needing to manage partner data.

5. Next Steps

Phase 2 Goal:

Extend the system to support formal **reading assessments**, **student confidence tracking**, **and milestone generation**. This phase will introduce:

- Structured flows for capturing Reading Assessments and Confidence Surveys
- Automated synchronization of the Student's primary reading level based on their latest assessment
- Declarative logic to generate Reading Milestones triggered by progress indicators (e.g. level advancement, cumulative minutes, session count)

The focus remains on scalable, declarative solutions that maintain data integrity while enriching insight and motivation across the programme.